






























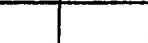












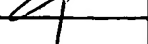


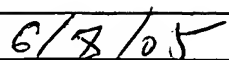


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| Sheet 1 of 7  |    |   |          |   |   |   |   |
| FORM PTO 1449 (modified)<br><br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br>LIST OF REFERENCES CITED BY APPLICANT(S)<br>(Use several sheets if necessary) |    |   |          | ATTY DOCKET NO.<br>2003_1847  |   | SERIAL NO.<br>NEW   |   |
| Date Submitted to PTO: December 16, 2003  |    |   |          | APPLICANT<br>Mitsuki OSHIMA   |   | FILING DATE<br>December 16, 2003  |   |
| U.S. PATENT DOCUMENTS   |    |   |          |   |   |   |   |
| *EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER  | DATE     | NAME  | CLASS   | SUBCLASS  | FILING DATE IF<br>APPROPRIATE   |
|    | AA | 5,311,550 ✓   | 5-10-94  | Fouche et al.   |    |    |   |
|    | AB | 4,630,287 ✓   | 12-16-86 | Armstrong   |    |    |   |
|    | AC | 4,271,527 ✓   | 6-2-81   | Armstrong   |    |    |   |
|    | AD | 5,050,188 ✓   | 9-17-91  | Dirr  |    |    |   |
|    | AE | 5,398,073 ✓   | 3-14-95  | Wei   |    |    |   |
|    | AF | 5,452,015 ✓   | 9-19-95  | Hulyalkar   |    |    |   |
|    | AG | 5,565,932   | 10-15-96 | Citta et al.  |    |    |   |
|    | AH | 5,481,412   | 1-2-96   | Bannai et al.   |    |    |   |
|   | AI | 3,909,721   | 9-30-75  | Bussgang et al.   |   |   |   |
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|   |    | DOCUMENT<br>NUMBER  | DATE     | COUNTRY   | CLASS   | SUBCLASS  | TRANSLATION<br>YES NO   |
|    | AJ | 0365431   | 4-25-90  | EP  |   |  |  |
|    | AK | 0485105   | 5-13-92  | EP  |  |  | X   |
|    | AL | 92/14343  | 8-20-92  | WO  |  |  | X   |
|    | AM | 89/08366  | 9-8-89   | WO  |  |  | X   |
|    | AN | 0031193   | 7-1-81   | EP  |  |  | X   |
| OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)  |    |   |          |   |   |   |   |
|    | AO | Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73. |          |   |   |   |   |
|    | AP | M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.               |          |   |   |   |   |
|    | AQ | Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.   |          |   |   |   |   |
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

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

















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| *EXAMINER<br>INITIAL   |    | DOCUMENT<br>NUMBER | DATE     | NAME            | CLASS   | SUBCLASS  | FILING DATE IF<br>APPROPRIATE |
|--|----|--------------------|----------|-----------------|---|---|-------------------------------|
|   | AA | 4,227,152          | 10-7-80  | Godard et al.   |     |    |                               |
|  | AB | 4,525,846          | 6-25-85  | Bremer et al.   |     |    |                               |
|  | AC | 4,751,478          | 6-14-88  | Yoshida         |    |    |                               |
|  | AD | 4,891,806          | 1-2-90   | Farias et al.   |    |    |                               |
|  | AE | 4,903,125          | 2-20-90  | Parker          |    |    |                               |
|  | AF | 4,937,844          | 6-26-90  | Kao             |    |    |                               |
|  | AG | 5,164,963          | 11-17-92 | Lawrence et al. |    |    |                               |
|  | AH | 5,555,275          | 9-1996   | Oshima          |    |    |                               |
|  | AI | 5,565,926          | 10-15-96 | Bryan et al.    |  |  |                               |

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|   |    | DOCUMENT<br>NUMBER | DATE    | COUNTRY | CLASS   | SUBCLASS  | TRANSLATION<br>YES NO |  |
|---|----|--------------------|---------|---------|---|---|-----------------------|--|
|  | AJ | 0311188            | 4-12-89 | EP      |  |  | X                     |  |
|   | AK | 0329158            | 8-23-89 | EP      |  |  | X                     |  |
|   | AL | 64-5135            | 1-10-89 | JP      |  |  | X                     |  |
|   | AM | 63-28145           | 2-5-88  | JP      |  |  | X                     |  |
|  | AN | 62-133842          | 6-17-87 | JP      |  |  | X                     |  |

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|  | AO | Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826. |
|  | AP | Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20.                                    |
|  | AQ | Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.   |

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TRINH, TAN

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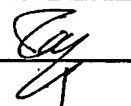











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|--|----|--------------------|----------|--------------------|---|---|-------------------------------|
|   | AA | 5,105,442          | 4-14-92  | Wei                |   |  |                               |
|  | AB | 4,048,572          | 9-13-77  | Dogliotti et al.   |  |  |                               |
|  | AC | 5,282,019          | 1-25-94  | Basile et al.      |  |  |                               |
|  | AD | 5,311,547          | 5-10-94  | Wei                |  |  |                               |
|  | AE | 5,267,021          | 11-30-93 | Ramchandran et al. |  |  |                               |
|  | AF | 5,038,219          | 8-6-91   | Yamashita et al.   |  |  |                               |
|  | AG | 5,087,975          | 2-11-92  | Citta et al.       |  |  |                               |
|  | AH | 5,086,340          | 2-4-92   | Citta et al.       |  |  |                               |
|  | AI | 5,243,629          | 9-7-93   | Wei                |  |  |                               |

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|   |    | DOCUMENT<br>NUMBER | DATE     | COUNTRY | CLASS   | SUBCLASS  | TRANSLATION<br>YES NO |
|---|----|--------------------|----------|---------|---|---|-----------------------|
|  | AJ | 53-137657          | 12-1-78  | JP      |  |  | X                     |
|   | AK | 0282298            | 9-14-88  | Europe  |  |  | X                     |
|   | AL | 0392538            | 10-17-90 | Europe  |  |  | X                     |
|   | AM | 0490552            | 6-17-92  | Europe  |  |  | X                     |
|  | AN | 0506400            | 9-30-92  | Europe  |  |  | X                     |

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|  | AO | Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085  |
|   | AP | P. Hoehner et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7 |
|  | AQ | K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292   |

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DATE CONSIDERED

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
















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









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| *EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER | DATE     | NAME                    | CLASS   | SUBCLASS  | FILING DATE IF<br>APPROPRIATE |
|---|----|--------------------|----------|-------------------------|---|---|-------------------------------|
|  | AA | 5,142,353          | 8-25-92  | Kageyama et al.         |  |  |                               |
|   | AB | 5,197,061          | 3-23-93  | Halbert-Lassalle et al. |  |  |                               |
|   | AC | 5,291,289          | 3-1-94   | Hulyalkar et al.        |  |  |                               |
|   | AD | 5,166,924          | 11-24-92 | Moose                   |  |  |                               |
|   | AE | 4,940,954          | 7-10-90  | Aubert et al.           |  |  |                               |
|   | AF | 5,128,758          | 7-7-92   | Azadegan et al.         |  |  |                               |
|  | AG | 5,038,402          | 8-6-91   | Robbins                 |  |  |                               |
|   | AH | 5,638,112          | 6-10-97  | Bestler et al.          |  |  |                               |

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|   |    | DOCUMENT<br>NUMBER | DATE    | COUNTRY | CLASS   | SUBCLASS  | TRANSLATION<br>YES NO |   |
|---|----|--------------------|---------|---------|---|---|-----------------------|---|
|  | AI | 0448492A1          | 9-25-91 | Europe  |  |  |                       | X |
|   | AJ | 0485108A2          | 5-13-92 | Europe  |  |  | X                     |   |
|   | AK | 0525641A2          | 2-3-93  | Europe  |  |  | X                     |   |
|  | AL | 0540231A2          | 5-5-93  | Europe  |  |  | X                     |   |
|   | AM | 0531046A2          | 3-10-93 | Europe  |  |  | X                     |   |

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

|   |    |  |
|---|----|--|
|  | AN | K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.   |
|   | AO | Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334. |
|  | AP | William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.  |

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

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



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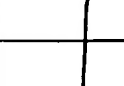


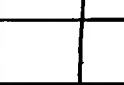


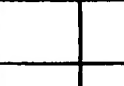


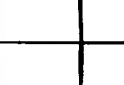


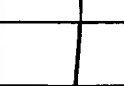








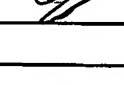





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|---|----|--------------------|---------|------------------|---|---|-------------------------------|
|  | AA | 5,063,445          | 11-5-91 | Nishizawa et al. |  |  |                               |
|  | AB | 5,819,000          | 10-6-98 | Oshima           |  |  |                               |
|  | AC | 5,999,569          | 12-7-99 | Oshima           |  |  |                               |
|  | AD | 5,892,879          | 4-6-99  | Oshima           |  |  |                               |

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|---|----|--------------------|----------|---------------|---|---|-----------------------|
|    | AE | 7-99522            | 4-11-95  | Japan         |    |    | abstract              |
|    | AF | 7-79415            | 3-20-95  | Japan         |    |    | abstract              |
|   | AG | 5-75568            | 3-26-93  | Japan         |    |    | abstract              |
|  | AH | 86-07223           | 12-4-86  | WO            |  |  | X                     |
|  | AI | 2 187 611          | 9-9-87   | Great Britain |  |  | X                     |
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

















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


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






















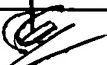


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